

CLAIMS

What is claimed is:

Sub A1

1. A method for minimizing data transmission between a mobile station and a gateway server, comprising the steps of:

(a) transmitting by a mobile station to a gateway server a request for at least one of content and resource located on a web server using a first protocol;

(b) transmitting the request by the gateway server to the web server using a second protocol that is compatible with that used by the web server;

(c) receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at least one of content and resource;

(d) creating and transmitting by the gateway server to one of the web server and another web server another request for the at least one of content and resource at the new location in response to the redirection message;

(e) receiving by the gateway server the at least one of content and resource from said one of the web server and another web server; and

(f) transmitting the at least one of content and resource from the gateway server to the mobile station using the first protocol.

2. The method of claim 1, further comprising the step (g) of transmitting the new location of the at least one of content and resource to the mobile station from the gateway server.

1 3. The method of claim 2, wherein the new location is included as a header
2 transmitted with the at least one of content and resource.

1 4. The method of claim 1, wherein the first protocol of step (a) is based on
2 the Wireless Application Protocol.

1 5. The method of claim 1, wherein the second protocol of step (b) is based on
2 a World-Wide Web protocol.

1 6. The method of claim 5, wherein the second protocol is the HyperText
2 Transport Protocol.

1 7. The method of claim 1, wherein the request is coded as a Uniform
2 Resource Locator.

1 8. A system for minimizing data transmission between a mobile station and a
2 gateway server, comprising:

3 a mobile station for transmitting a request for one of content and resource at a
4 location using a first protocol;

5 a gateway server, connected to said mobile station, for receiving the request from
6 said mobile station using the first protocol and for encoding and transmitting the request using a
7 second protocol; and

8 a web server connected to said gateway server for storing at least one of content
9 and resource, said web server receiving the encoded request from said gateway server and
10 sending a redirection message to said gateway server indicating a new location of the requested
11 one of content or resource, said gateway server receiving the redirection message and sending a
12 request to the new location without communicating the redirection message to said mobile station,
13 said gateway server accessing the requested one of content and resource from one of said web
14 server and another web server in accordance with the new location and transmitting to said mobile
15 receiver the requested one of content and resource.

1 9. The system of claim 8, wherein the request from said gateway server is a
2 Uniform Resource Locator.

1 10. The system of claim 8, wherein the first protocol is the Wireless
2 Application Protocol and the second protocol is the HyperText Transfer Protocol.

1 11. The system of claim 8, wherein said gateway server is configured to send
2 the new location to said mobile station together with the requested one of content and resource.

1 12. The system of claim 8, wherein said web server includes the requested one
2 of content and resource at the new location.